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13 APR 1972

MEMORANDUM FOR: Director, CIA Reconnaissance Programs

SUBJECT: Program Progress Report

Forwarded herewith are three copies of the IDEALIST  
Program Progress Report for the period 1 January 1972 -  
31 March 1972.

WENDELL L. BEVAN, JR.  
Brigadier General, USAF  
Director of Special Activities

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Attachments -

As stated

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SAS/O/OSA: [REDACTED] (11 April 1972)

Distribution:

- 1 - D/CRP
- 2 - D/CRP
- 3 - D/CRP
- 4 - DDS&T Reg
- 5 - D/SA
- 6 - SAS/O/OSA
- 7 - D/O/OSA
- 8 - IDEA/O/OSA
- 9 - INTEL/O/OSA
- 10 - D/M/OSA
- 11 - AMS/OSA
- 12 - RB/OSA

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Section I

IDEALIST

DEVELOPMENT SUMMARY AND PROGRESS

(1 JANUARY 1972 - 31 MARCH 1972)

I. AIRFRAME

A. Light Weight HF Radio - Prototype installation of the new light weight radio, 718U-T-7, was accomplished on Article 055 during 6-17 March 1972. Results of the first test flight, accomplished on 28 March 1972, were satisfactory. Additional test flights of the new HF radio will be conducted during the early part of Fourth Quarter FY-1972. Installation of the light weight radio in both articles at Detachment H is scheduled to be accomplished during May 1972. Article 054 will also undergo installation of the new light weight radio during Fourth Quarter FY-1972.

B. Aircraft Modification - Articles 051 and 053 were down for maintenance and extensive modification during the period 28 January through 29 February 1972. Article 053 underwent a periodic inspection, major modification, and service bulletin update while Article 051 was down for major modification and service bulletin update. Modification and service bulletin work was accomplished with the assistance of a Lockheed modification team from CONUS.

C. U-2R Flight Test and Operational Training Summary

1. IDEALIST Program accomplishments in U-2R aircraft, since introduction, include 8381 hours on 2533 sorties as of 31 March 1972.

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2. Flight test and operational data are depicted below:

	<u>1 JAN-31 MAR</u> <u>FLIGHTS</u>	<u>1 JAN-31 MAR</u> <u>TIME</u>
1 - 051	29	84.9
2 - 053	33	108.6
3 - 054	50	170.3
4 - 055	<u>50</u>	<u>162.5</u>
TOTAL	162	526.3

## II. PAYLOAD

A. "H" Configuration - Serial Number 003 was transferred to Actron for installation of the new apochromatic lens, new gyro, light weight mount, and RFI modification on 27 March 1972. Installation of the new lens is to be accomplished during April/May 1972. Flight test of the lens will begin during May. Lens #2 is due for completion 21 June 1972 with installation into Serial Number 002 scheduled for First Quarter FY-1973.

B. "B" Configuration - "B" Serial Number 229 is at Actron awaiting completion of the new B-3 lens. Lens #1 is scheduled for delivery 26 May 1972 with installation in Serial Number 229 scheduled to be completed 23 June 1972. Delivery of lens #2 will be during First Quarter FY-1973. Flight test of new B-3 configuration will be conducted upon receipt of the configuration from Actron.

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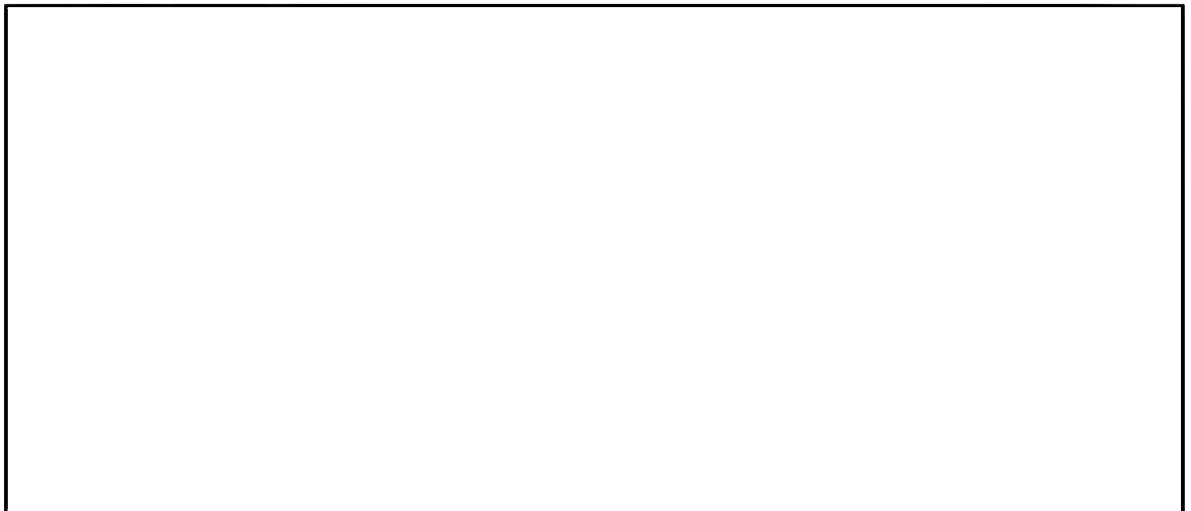
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B. Life Support Activities

1. Automatically Deployed Survival Kit - Test jumps were performed on 10 and 11 February 1972 utilizing the Fixed Distance Radar sensor attached to the U-2R survival seat kit. The seat kit deployed automatically on all test jumps, however, there was some variance in opening altitude. This may possibly have been caused by incomplete extension of the radar antenna on the bottom of the kit. The kit has been returned to the ARO Corporation for rework and further drop tests will be performed during the next quarter.

2. S1010 Pilot Protective Assembly (PPA) Design Study - The S1010 Full Pressure Suit Omni-Environmental Study has been completed and delivery of one helmet for low-pressure chamber evaluation is scheduled for April 1972. Many of the problem areas, previously identified from pilot critiques, have been addressed in this study. The contractor is optimistic that, at the very least, improvement will be demonstrated in visibility, mobility, comfort, and ventilation.

3. Engineering Change Proposal (ECP) - Approval - The ARO Corporation Exhalation Valve Tester Kit, ECP 2PM #2, was approved during this quarter. This modification to the existing

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2. Physiological Training at Detachment G - On 15 February Refresher Physiological Training was conducted for the Detachment G Commander which included classroom lectures and a low-pressure chamber flight in the full-pressure suit. Additionally, discussions were carried on with all the project pilots concerning new equipment Research and Development efforts.

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Section 2

IDEALIST

OPERATIONAL SUMMARY AND STATUS

(1 JANUARY 1972 - 31 MARCH 1972)

I. OPERATIONAL MISSION SUMMARY

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Five IDEALIST/TACKLE operational missions were alerted during this period. [REDACTED]

[REDACTED] All missions were planned to be flown no closer than 25 nautical miles to the China mainland coast. Following is a summary of missions completed:

[REDACTED]

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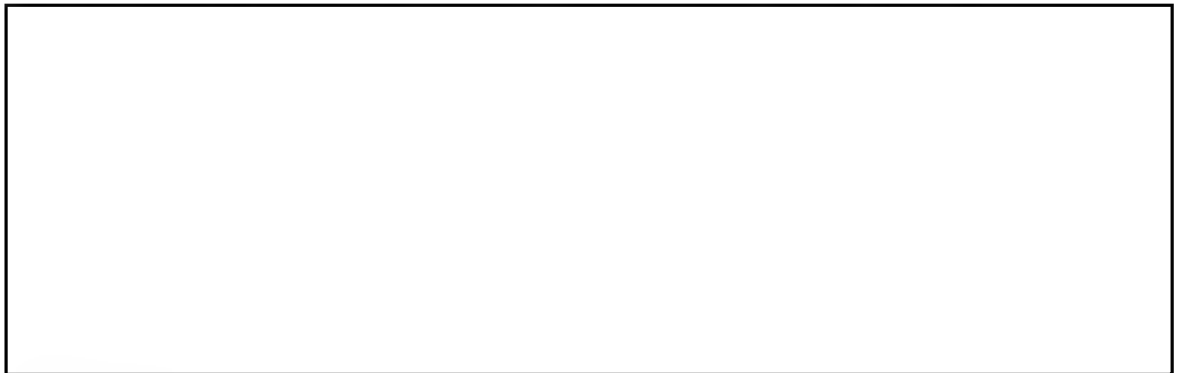


3. Mission C042C was flown

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This mission was designed to collect photo and SIGINT information along the central coast of China from a point abeam Shanghai south to the Quemoy Island area. This mission was targeted against the PRC coastal airfields. This mission was programmed COMIREX targets were covered, as well as 13 bonus targets.

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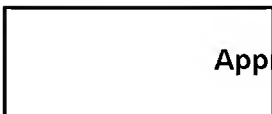


## II. GENERAL

A. RED DOT - Ten sorties were flown in support of continuing film test using various film types and camera configurations in the U-2R.



C. Lens - Four sorties were flown in support of qualification tests of the new Delta Apochromatic Lens. Additionally, five "H" baseline and one "B" baseline sorties were flown preparatory to actual lens tests.



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D. Light Weight HF - Two long range sorties were flown in support of system qualification. One aircraft carried the light weight HF equipment, the other aircraft carried the unmodified system for comparison purposes.

E. Pilot Training - The final training sortie, IQ-16, was flown by [REDACTED]

F. Two flights were flown in the vicinity of Minneapolis and Kansas City in support of special photo requirements of AEC Division of OSI.

III. PILOT AND AIRCRAFT STATUS (AS OF 31 MARCH 1972)

A. Detachment "G" (Edwards AFB - North Base)

Aircraft 3 U-2R\*

Pilots [REDACTED]

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B. Detachment "H"

Aircraft [REDACTED]

Pilots [REDACTED]

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[REDACTED]

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